

TRION
Air Purification Systems



Air Boss® M-Series
Media & Adsorption Air Cleaner

Engineered Solutions For Clean Air

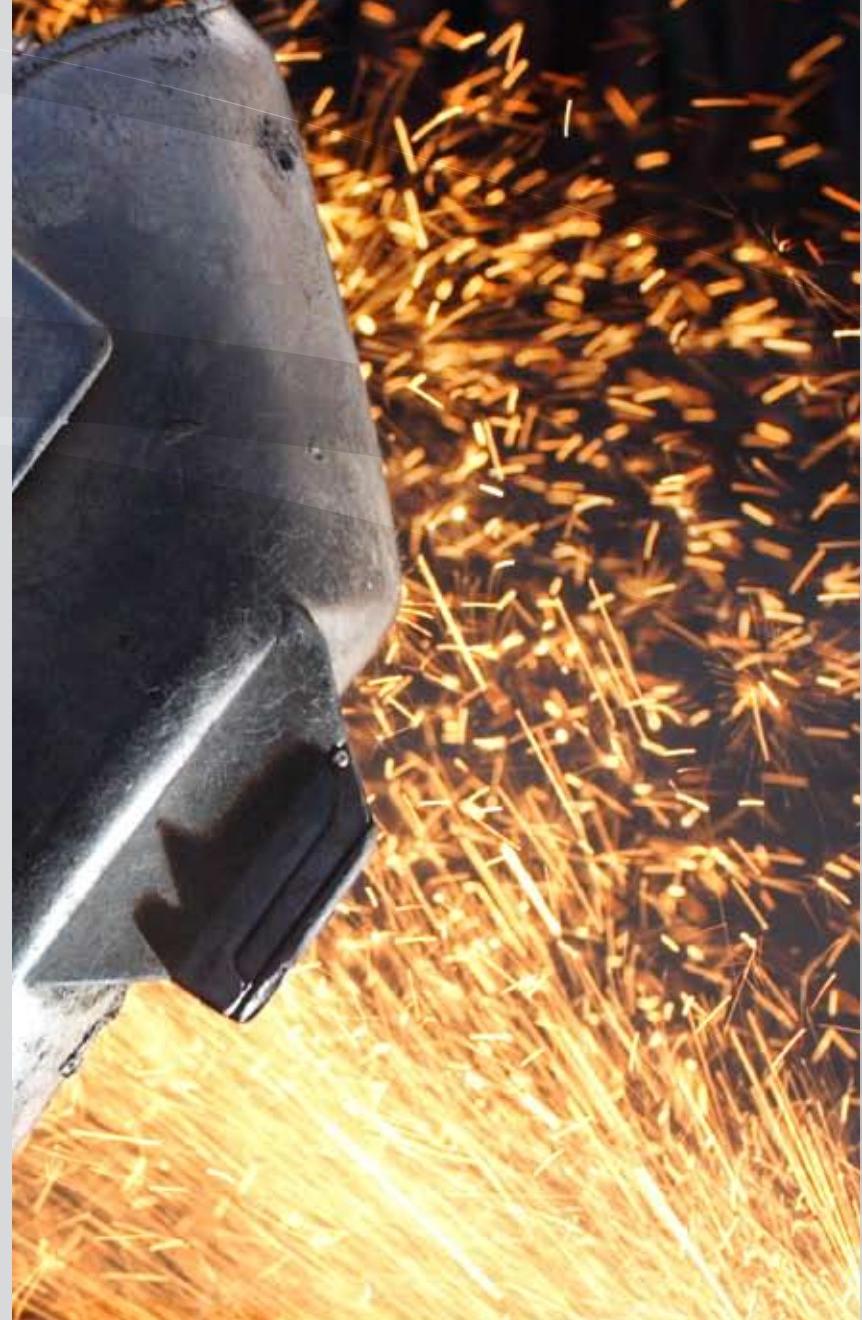
Trion's Air Boss media units are industrial air cleaners designed for both general ventilation (removal of airborne pollutants from plant atmospheres) or source capture (ductwork or arms positioned at the origin of pollutants). These units help solve welding smoke, oil mist, rubber dust, diesel smoke, grinding dust, numerous gases/odors and many other indoor air pollution problems.

Features & Benefits

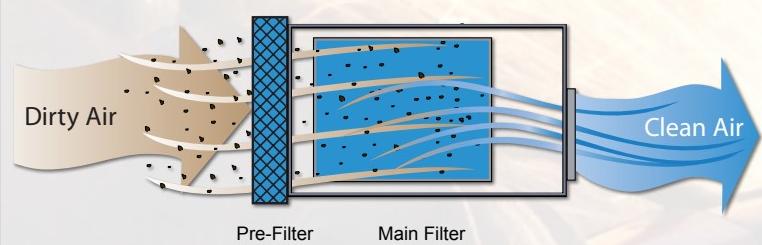
- Straight Through or Side Discharge — Ability to Better Control Airflow (M3000 & M6000)
- Odor and High Efficiency Filters — From HEPA and Adsorber Modules to Mini-Pleat Filters (194/388 Sq. Ft.) for Maximum Efficiency and Effectiveness (M3000 & M6000)
- Belt Driven Blower with Variable Pitch Sheave — Providing Adjustment for Precise CFM Operating Range (M3000 & M6000)
- Collects Wet or Dry Particulates — Providing Versatility in a Wide Range of Applications (M3000 & M6000)
- High Static Blower Packages — Capacity for Additional External Static Offers More Contaminant Pickup Points (Optional For M3000)

How it Works

Trion's Air Boss Media Series uses the Interception Filtration Principle. Dirty, polluted air is drawn through the pre-filter to remove larger dust particles. The second stage, micro-glass deep pocket media filter removes submicron particles from the air stream by interception. The small diameter fibers in the filter intercept and retain these small particles while the large surface area of the filter gives long life and low pressure drop. The blower is designed specifically to handle the filtration system at rated CFM over the useful life of the filter.



Media Air Cleaning Process



Air Boss® M2500, M3000 & M6000 Specifications

Specifications

	M2500	M3000	M6000
Dimensions	47" L x 23.9" W x 23.6" H	68" L x 25" W x 26.25" H	73.5" L x 49" W x 30" H
Installation	Suspended, Wall or Frame Mounted		
Weight	180 Lbs./Shipping 250 Lbs.	260 Lbs./Shipping 330 Lbs.	610 Lbs./700 Lbs.
Electrical: Standard	.75hp: 120vac/60/1ph 10.5 AMPS	2 HP: 208-240/480/60/3ph 5.8/2.9 AMPS	7.5 HP: 208-240/480/60/3ph 19.8/9.9 AMPS
Optional	N/A	2 HP: 575/60/3ph 3 HP: 208-240/480/60/3ph-9.1/4.6 AMPS 3 HP: 575/60/3ph	5hp: 208-230/460/60/3ph 13.4/6.7 AMPS 5 HP: 575/60/3ph 7.5 HP: 575/60/3ph
Motors: Standard	Thermally Protected	TEFC, Ball Bearings 1740 RPM (Standard); 3450 RPM (Optional)	TEFC, Ball Bearings 1740 RPM (Standard); 3450 RPM (Optional)
Blowers: Standard	Direct Drive, Forward Curved	Belt Drive, Forward Curved	Belt Drive, Forward Curved
Optional	N/A	Belt Drive, Backward Inclined, Airfoil, 3hp High Static	N/A
Air Volume (CFM)	1240-2010	1300-2250	2400-4500
Controls	3-Speed Selector Switch	Motor Starter (Optional)	Motor Starter (Optional)
Sound Rating	50-70 dBA @ 5 Ft.	74 dBA @ 5 Ft.	80 dBA @ 5 Ft.
Pre Filters:	4 Inch 35% Pleated (Standard) Polyester Pad (Optional) 3-Way Wrap Around (Optional)	4 Inch 35% Pleated (Standard) 2 Inch Aluminum Mesh (Optional) 2 Inch Impinger (Optional) 3 Way Wrap Around (Optional)	(2) 4" 35% Pleated (Standard) (2) 2" Aluminum Mesh (Optional) (2) 2" Impinger (Optional)
Primary	95% Bag Filter (Standard) 65% Bag Filter (Optional)	95% Bag Filter (Standard) 65-95% Extended Surface (Optional) 99.97% HEPA (Optional)* 2 Ea. Adsorber Modules (Optional)* (25 Lbs. Carbon Each)	(2) 95% Bag Filter (Standard) (2) 65-95% Extended Surface (Optional) (2) .99.97% HEPA (Optional)* (4) Adsorber Modules (Optional)* (25 Lbs. Carbon Each)
Secondary	N/A	95% Short Bag (Optional)*	(2) 95% Short Bag (Optional)*
Gauge Kit	Manometer Or Magnehelic To Indicate When Filters Need Changing		
Silencer (Optional)	N/A	Reduces Sound To 72.5 dBA.	Reduces Sound To 78 dBA.

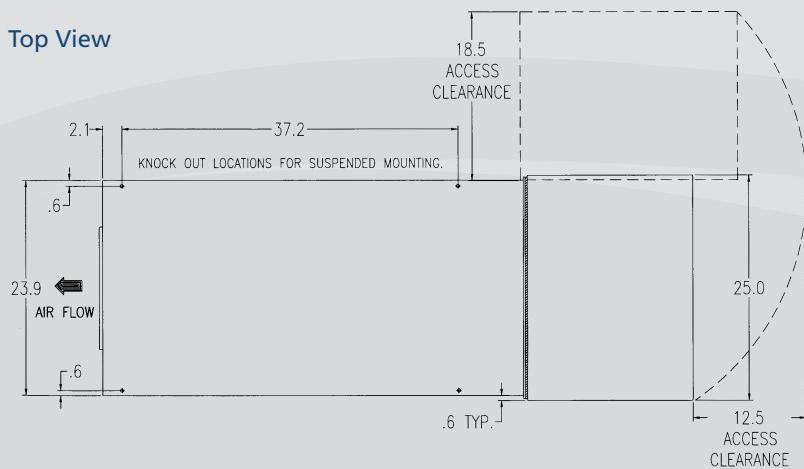
Specification for Each Unit

Cabinet	16 and 18 Gauge Galvanized Steel
Finish	Blue Epoxy Powder Coat
Air Flow	Horizontal — Right to Left or Left to Right, Optional Side Discharge (M3000 & M6000)
Filter Access	Hinged Doors — M3000 & M6000. End Loading — M2500.
Drain	Prefilter & Main Filter Drain (M2500 - No Drain)
Plenum	Source Capture with Inlet Collar (M3000 - 14" Dia. or M6000 - 20" Dia), with no Hole, Dual Arm (M3000 & M6000 Only)
Agency Approvals	UL Listed Components

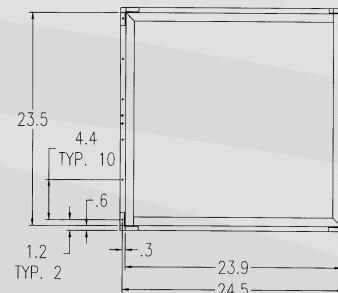
Media and Adsorption Air Cleaner

Dimensions M2500

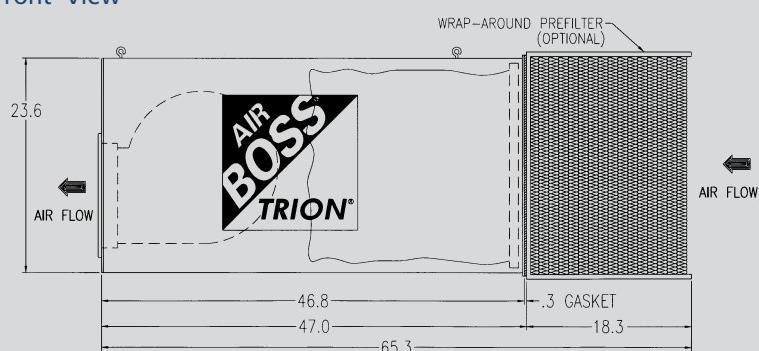
Top View



Intake End

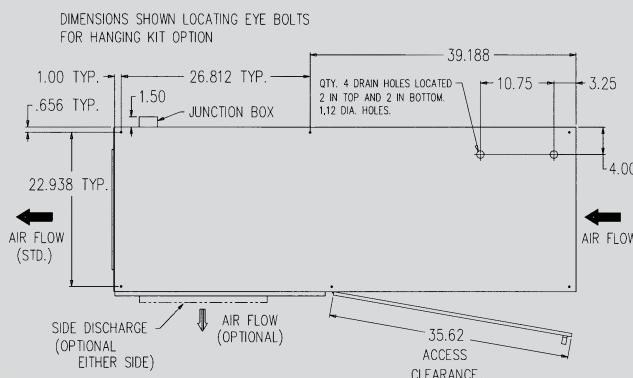


Front View

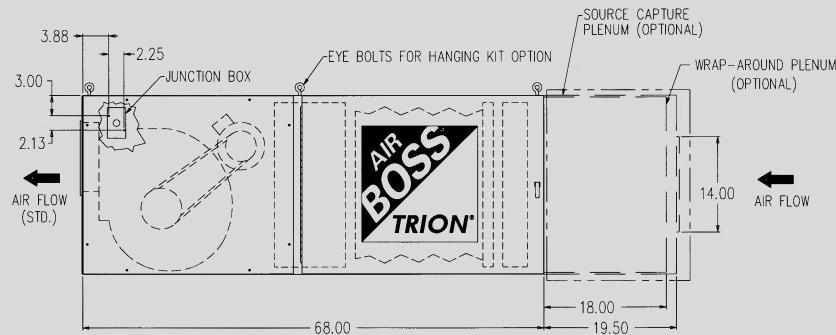


Dimensions M3000

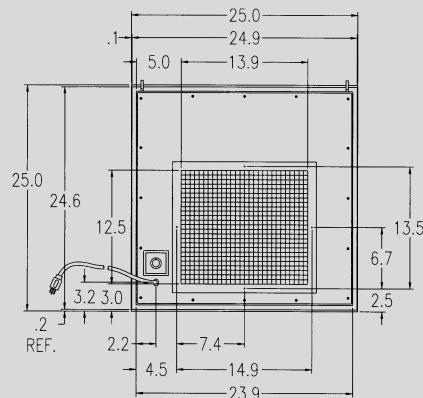
Top View



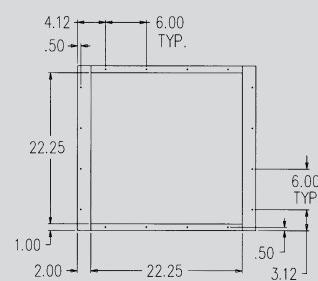
Front View



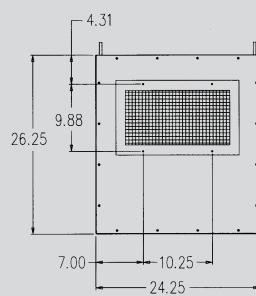
End Discharge



Intake End



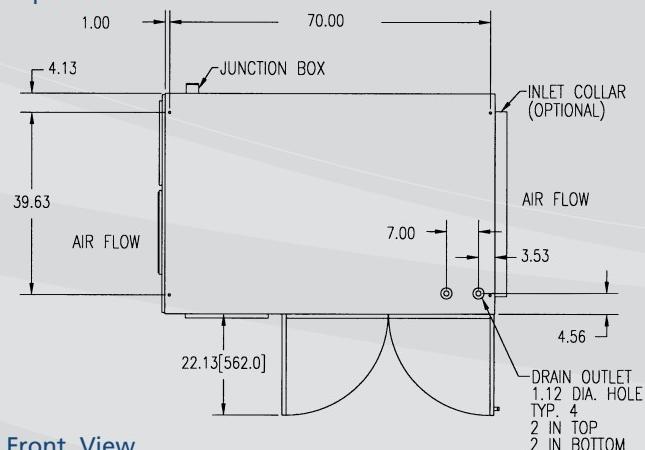
End Discharge



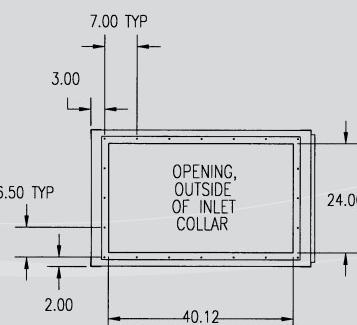
Media and Adsorption Air Cleaner

Dimensions M6000

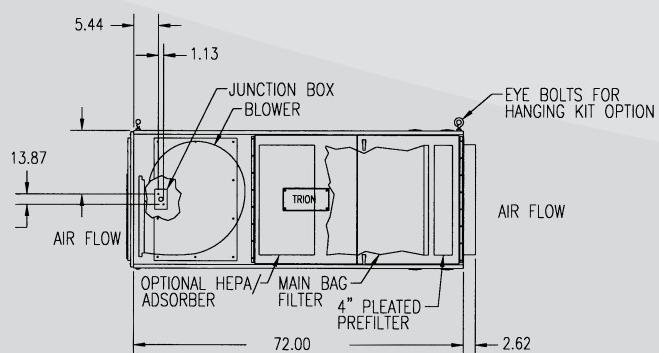
Top View



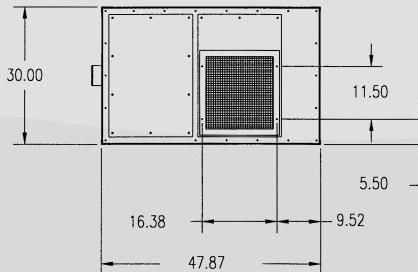
Intake End



Front View

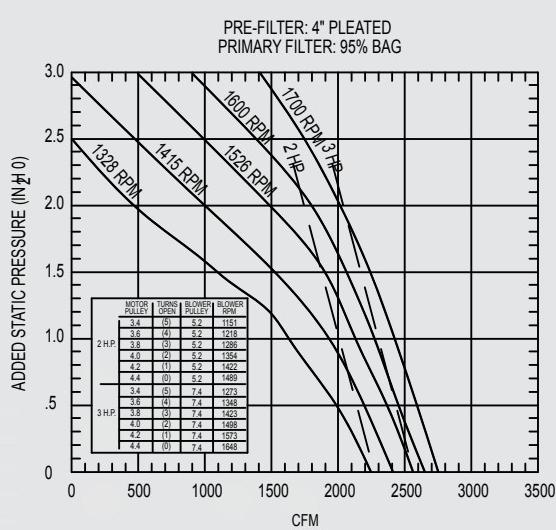


End Discharge

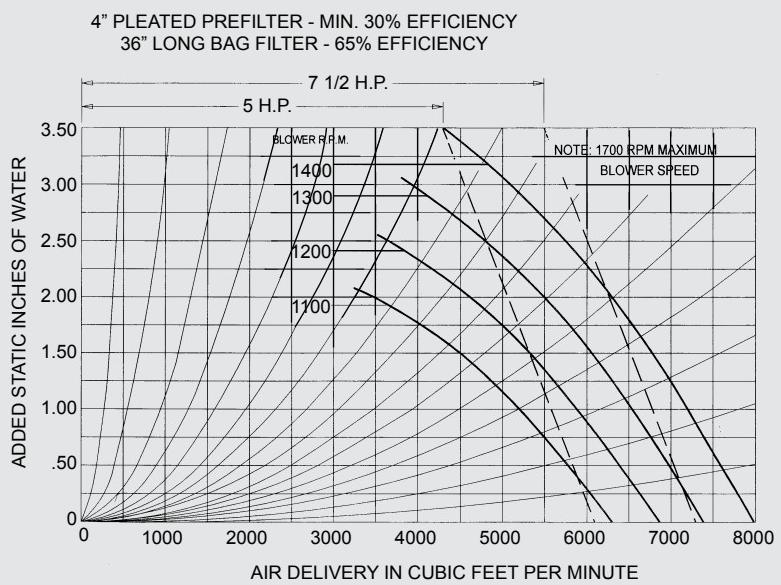


Air Delivery

M3000



M6000



Industrial Applications Guide

Industrial Applications

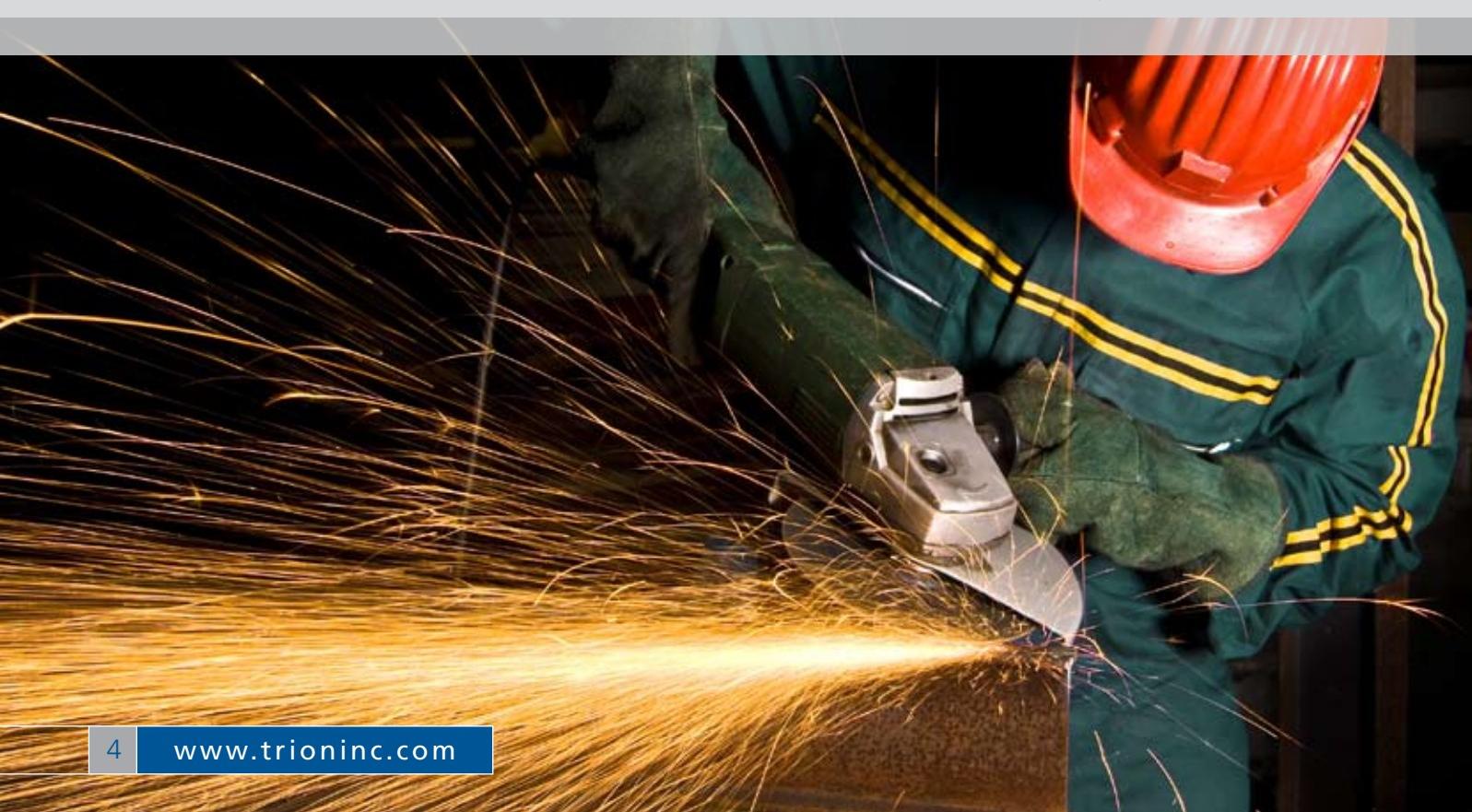
Dusts	Smoke & Fumes	Process Finishings	Manufacturing Process
Atmospheric	Burn Room Testing Exhaust	Paint Room Make-Up Air	Spruce Cutting Effluent
General Ventilation	Metal Forming:	Plastic Molding	Scrap Metal Pre-heaters
Tobacco	• Cold Heading	Photo Industry:	Die Casting
Rubber	• Warm Fogging	• Film Manufacturing	Forming/Shaping
Silica	Injection Molding	• Photo Finishing	Forging
Plastic/Epoxy	Rubber Curing		
Fiberglass	Drying Ovens		
Mica	Heat Treating		
Textile	Indoor Firing Range		
Dried Automotive Body Putty	Kitchen Exhaust		
Talcum Powder	Plasma Cutting		
Paper	Soldering		
Spices	Tobacco		
Toner	Torch Cutting		
Wood (light loadings)	Welding		
Fly Ash	Yarn Setting		
Graphite			

Industrial Particulate Loading Guide

A general guide to industrial particulate concentrations is as follows:

Light	Dirty city air, designated smoking areas (2.0-25 mg/m ³)	Medium	Industrial process exhaust, factory indoor air, commercial kitchen exhaust (25-100 mg/m ³)	Heavy	Metal machining oil mists, grinding dusts, heat treating operations, heavy welding, powders (100 mg/m ³ and above)
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Particulate considerations such as conductivity, tackiness, and operation cycles need to be taken into consideration when determining equipment selections.



Industrial Applications Guide

Industrial - Wet Particulate

Application	Central System Typical Heating & Air Conditioning Systems	Equipment			
Oil Mist/Smoke	800-20,000 CFM	Medium	T-Series/Electrostatic		
Coolants	2,000-25,000 CFM	Heavy	Model 75/Electrostatic		
Oily Welding Fume	8,250-Infinite CFM	Heavy	Model 60/Electrostatic		
	2,000-10,500 CFM	Heavy	ATS/Electrostatic		
Source Capture Using Hoods, Arms, Portable Units	Equipment				
	250-600 CFM	Medium	Mini M.E./Electrostatic		
	300-800 CFM	Medium	VOMP600/Electrostatic		
	600-850 CFM	Medium	MP600M/Media		
Ambient Capture Free Hanging with Established Air Patterns	Equipment				
	800-6,000 CFM	Medium	T-Series/Electrostatic		
	1,200-4,500 CFM	Medium	M-Series/Media		
	2,000-25,000 CFM	Heavy	Model 75/Electrostatic		
	2,000-10,500 CFM	Heavy	ATS/Electrostatic		

Industrial - Dry Particulate

Application	Central System Typical Heating & Air Conditioning Systems	Equipment			
Process Dust	800-20,000 CFM	Medium	T-Series/Electrostatic		
Powders	2,000-25,000 CFM	Heavy	Model 75/Electrostatic		
Grinding Fumes	8,250-Infinite CFM	Heavy	Model 60/Electrostatic		
Welding Fumes	2,000-10,500 CFM	Heavy	ATS/Electrostatic		
Source Capture Using Hoods, Arms, Portable Units	Equipment				
	220 CFM	Light	* One Man Portable/Media		
	300-800 CFM	Medium	VOMP600/Electrostatic		
	600-850 CFM	Medium	MP600M/Media		
Ambient Capture Free Hanging with Established Air Patterns	Equipment				
	900-1,100 CFM	Light	* M2500M/Media		
	900-1000 CFM	Medium	* Port-A-Cart/Cartridge		
	800-6,000 CFM	Medium	T-Series/Electrostatic		
	1,300-4,500 CFM	Medium	M-Series/Media		
	1,800-4,500 CFM	Heavy	Air Boss/Cartridge		
	400-80,000 CFM	Heavy	DC Series/ Cartridge		
				* Portable Unit	
	Equipment				
	800-6,000 CFM	Medium	T-Series/Electrostatic		
	1,200-4,500 CFM	Medium	M-Series/Media		
	2,000-25,000 CFM	Heavy	Model 75/Electrostatic		
	2,000-10,500 CFM	Heavy	ATS/Electrostatic		



Our Media Air Cleaners come with a three-year limited warranty.



DC Cartridge Dust Collector

Learn more about other Trion industrial products by contacting your local Trion representative or by visiting us on the web at www.TRIONINC.com



Mini M.E. Mist Collector

TRION

Air Purification Systems

Trion®

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